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09/938,793	08/24/2001	Donald L. Nisley	37125-66048	2159
	7590 02/14/2000 COBURN, LLP	EXAMINER		
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1	UNITED STATES PATENT AND TRADEMARK OFFICE
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4	BEFORE THE BOARD OF PATENT APPEALS
5	AND INTERFERENCES
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8	Ex parte DONALD L. NISLEY and JAMES E. MICKELSON
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10	A1 2007 2076
11	Appeal 2007-3876
12	Application 09/938,793 Technology Center 3600
13 14	Technology Center 3000
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16	Decided: February 12, 2008
17	2001ded: 1 001ddd y 12, 2000
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19 20	Before TERRY J. OWENS, MURRIEL E. CRAWFORD, and DAVID B WALKER, Administrative Patent Judges.
20	,
21	OWENS, Administrative Patent Judge.
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23	DECISION ON APPEAL
24	The Appellants appeal from a rejection of claims 1-10 and 12-21.
25	Claim 11 has been canceled and claims 22-26 stand allowable.
26	THE INVENTION
27	The Appellants claim a bearing assembly having a rotatable flinger

configured to form a single-stage rotating seal. Claim 1 is illustrative:

- 1. A bearing assembly, comprising:
- a bearing insert;

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- a bearing housing adapted to house the bearing insert;
- a cover removably securable to the bearing housing, wherein the cover extends outwardly beyond an outermost edge of the bearing hous

cover extends outwardly beyond an outermost edge of the bearing housing; and

a rotatable flinger secured to the cover outwardly beyond the

outermost edge of the bearing housing and configured to form a single-stage rotating seal, the rotatable flinger comprising:

a first opening therethrough, the first opening being adapted to receive a rotatable shaft and to enable the rotatable flinger to form a compression seal against the rotatable shaft; and

an outer flange disposed external to the cover to fling material that comes into contact with the outer flange away from the bearing assembly.

# THE REFERENCES

18	Tooley	US 4,348,067	Sep. 7, 1982
19	Motsch	US 4,368,933	Jan. 18, 1983
20	Uhen	US 4,781,476	Nov. 1, 1988
21	Grzina	US 4,895,460	Jan. 23, 1990
22	Hatch	US 4,943,068	Jul. 24, 1990
23	Tripathy	US 6,149,158	Nov. 21, 2000

### 24 THE REJECTIONS

The claims stand rejected as follows: claims 1-4, 7, 12-17 and 21 under 35 U.S.C. § 102(b) over Grzina and under 35 U.S.C. § 103 over Grzina in view of Hatch; claim 6 under 35 U.S.C. § 103 over Grzina in view of Tripathy; claims 8 and 19-21 under 35 U.S.C. § 103 over Grzina in view of Motsch; claims 9 and 10 under 35 U.S.C. § 103 over Grzina in view of

<sup>&</sup>lt;sup>1</sup>The Appellants state that flinger 26 rotates with shaft 12 to use centrifugal force to throw clear of shaft 12 and cover 24 any liquids or particulates that contact the flinger, thereby preventing contaminants from entering the bearing assembly (Spec. 5:19-27).

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Tooley; and claims 5 and 18 under 35 U.S.C. § 103 over Grzina in view of Uhen. 2

OPINION 3

4 We reverse the Examiner's rejections.

We need to address only the independent claims, i.e., claims 1 and 13.2 Claim 1 requires a rotatable flinger "configured to form a singlestage rotating seal" and claim 13 requires a rotatable member "configured to form a single-stage rotating seal". The Appellants' original disclosure does not include the term "single-stage". That limitation was added to the claims by amendment (filed July 28, 2005).

The Examiner argues that "configured to form a single stage seal" is functional language (Ans. 11). That argument is not well taken because that claim requirement is a structural limitation of the recited rotatable flinger or rotatable member, i.e., it is structurally configured as a single-stage seal.

The Examiner argues that the transition term "comprising" opens claims 1 and 13 to the single-stage seal having additional stages (Ans. 11). That is incorrect. If the seal had additional stages it would not be a single-stage seal. The Examiner's argument that both a bicycle and a unicycle have a single wheel, see id., is incorrect because a bicycle has two wheels, not a single wheel.

In the rejection under 35 U.S.C. § 102(b) the Examiner relies upon Grzina's seal comprising a labyrinth seal (3) and two seal rings (1A, 1B) (fig. 2) as being a single-stage seal (Ans. 5). The Examiner argues that 23

<sup>&</sup>lt;sup>2</sup> The Examiner does not rely upon Tripathy, Motsch, Tooley or Uhen for any disclosure that remedies the deficiency in Grzina or the combination of Grzina and Hatch with respect to the independent claims (Ans. 8-11).

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- because that seal is only one seal it is a single-stage seal. See id. The
- 2 Appellants argue that each of Grzina's labyrinth seal 3 and seal rings 1A and
- 3 1B is a stage and that, therefore, Grzina's seal is a three-stage seal (Br. 8;
- 4 Reply Br. 3-4).

The Examiner has not provided evidence that one of ordinary skill in the art would have considered Grzina's seal comprising labyrinth seal 3 and seal rings 1A and 1B to be a single-stage seal. In the alternative rejection of claims 1 and 13 under 35 U.S.C. § 103 the Examiner relies upon Hatch's seal as being a single-stage seal (Ans. 8). Hatch, however, states that the seal relied upon by the Examiner as a single-stage seal (i.e., shaft engaging member 15 comprising annular radial ridges or projections 23 and projecting lip element 25 with tip 29) is a two-stage seal (col. 6, Il. 60-61).

Thus, the evidence relied upon by the Examiner does not indicate that Grzina's seal is a single-stage seal.

The Examiner has the initial burden of establishing a prima facie case of anticipation by pointing out where all of the claim limitations appear in a single reference. *See In re Spada*, 911 F.2d 705, 708 (Fed. Cir. 1990); *In re King*, 801 F.2d 1324, 1327 (Fed. Cir. 1986). Because the Examiner has not established that Grzina discloses a single-stage seal, the Examiner has not carried the burden of establishing a prima facie case of anticipation of the Appellants' claimed invention.

As for the rejection under 35 U.S.C. § 103, the Examiner has not established that the combination of Grzina and Hatch, neither of which has been shown by the Examiner to disclose a single-stage seal, would have rendered a single-stage seal prima facie obvious to one of ordinary skill in

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the art. Hence, the Examiner has not established a prima facie case of
obviousness of the Appellants' claimed invention.

3 DECISION

The rejections of claims 1-4, 7, 12-17 and 21 under

- 5 35 U.S.C. § 102(b) over Grzina and under 35 U.S.C. § 103 over Grzina in
- 6 view of Hatch, claim 6 under 35 U.S.C. § 103 over Grzina in view of
- 7 Tripathy, claims 8 and 19-21 under 35 U.S.C. § 103 over Grzina in view of
- 8 Motsch, claims 9 and 10 under 35 U.S.C. § 103 over Grzina in view of
- 9 Tooley, and claims 5 and 18 under 35 U.S.C. § 103 over Grzina in view of
- 10 Uhen are reversed.

### REVERSED

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